|  | f Claim | - |
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10/718,764

Examiner

Kuo-Liang Peng

Applicant(s)/Patent under Reexamination

WAGENER ET AL.

Art Unit 1712

√ Rejected
= Allowed

\_ (Through numeral) Cancelled

Restricted

N Non-Elected
I Interference

A Appeal
O Objected

| Cla  | aim      | Date     |  |         | Claim        |          |          |          | Date     |          |  |          |          | С               | laim     | Date               |                         |          |  |        |       |          |                 |          |          |          |          |           |          |           |   |
|--|----------|----------|--|---------|--------------|----------|----------|----------|----------|----------|--|----------|----------|-----------------|----------|--------------------|-------------------------|----------|--|--------|-------|----------|-----------------|----------|----------|----------|----------|-----------|----------|-----------|---|
| _  | 70       | ~        |  |         |              |          |          |          |          |          |  |          | <u></u>  |                 | -        |                    |                         |          |  |        |       | <u></u>  |                 |          |          | - 1      | i        | İ         |          |           |   |
| Final  | Original | 1/12/07  |  | -       |              |          |          |          |          | ŀ        |  | Finat    | Original |                 | -        |                    |                         |          |  |        | Final | Original |                 |          |          |          |          |           |          |           |   |
| 证  | Ĕ        | Ξ        | li   |         | ı            |          |          |          |          |          |  | ﻧﯩ≣      | Ĕ        |                 | - }      | ł                  |                         |          |  |        | 這     | Į ž,     |                 |          |          | l        |          |           | -  -     | .         |   |
|  |          | <u> </u> |  |         |              |          |          |          |          |          |  |          |          |                 |          |                    |                         |          |  | ]      |       |          |                 | _        |          |          |          |           |          |           |   |
|  |          |          |  |         |              |          |          |          |          |          |  |          | 51       |                 |          |                    |                         |          |  | ]::::: |       | 101      |                 |          |          |          |          |           |          | $\neg$    |   |
|  | 2        |          |  |         |              | $\perp$  |          |          |          |          |  |          | 52       |                 |          |                    | П                       |          |  | ]::::: |       | 102      |                 |          | П        |          |          | $\neg$    |          | $\exists$ |   |
|  | В        |          |  |         | П            | $\Box$   |          |          |          |          |  |          | 53       |                 |          |                    | П                       |          |  | 7::::  |       | 103      |                 |          |          |          |          | $\neg$    | T        | $\exists$ |   |
|  | 4        |          |  | Т       |              |          |          |          |          |          |  | Ī        | 54       |                 |          |                    |                         |          |  | 7      |       | 104      |                 |          | $\neg$   |          |          | $\neg$    |          | $\neg$    |   |
|  | <b>5</b> |          |  |         |              | Т        | $\neg$   | П        |          |          |  |          | 55       | П               | П        |                    | П                       |          |  | 7      |       | 105      |                 |          |          |          |          |           | T        | Т         | _ |
|  | 6        |          |  |         |              | Т        | T        | Т        |          | $\neg$   |  |          | 56       | П               |          |                    | $\sqcap$                |          |  | 7::::  |       | 106      |                 |          |          | $\Box$   |          | $\neg$    |          | T         |   |
|  | 7        | N        |  |         | T            | $\neg$   |          | $\neg$   |          | $\neg$   |  |          | 57       |                 |          |                    | T                       |          |  | 1      |       | 107      |                 |          |          |          |          |           |          | $\neg$    |   |
|  | 8        | N        | П  |         |              |          |          | $\neg$   |          |          |  |          | 58       |                 | 1        | 1                  | $\Box$                  |          |  | 1      |       | 108      |                 |          | ヿ        | $\neg$   |          |           |          | $\neg$    |   |
|  | 3        |          | П  | 丁       | T            | 十        | T        | 寸        | T        | $\neg$   |  |          | 59       | П               | $\neg$   | $\neg$             | $\Box$                  |          |  | 7      |       | 109      |                 |          | 寸        | ヿ        |          |           | ヿ        | コ         | _ |
|  | 10       |          | П  | T       | T            | $\dashv$ |          | $\dashv$ |          |          |  |          | 60       |                 |          |                    |                         |          |  | 1      |       | 110      | П               | $\dashv$ | $\dashv$ | 一        | 一        |           | ヿ        | ヿ         | _ |
|  | 1        | ऻ        | $\Box$   |         | T            | $\dashv$ | 1        | 十        | 寸        | $\neg$   |  |          | 61       |                 | $\neg$   | $\neg$             |                         |          |  | 1      |       | 111      |                 | $\neg$   | $\neg$   |          | $\neg$   |           | _        | _         | _ |
|  | 12       | Г        | $\vdash$   | $\top$  | $\top$       | $\dashv$ | $\top$   | $\top$   |          | _        |  | $\vdash$ | 62       | $\Box$          | $\dashv$ | $\neg$             | 1 1                     | $\neg$   |  | 1      |       | 112      | П               | $\dashv$ | 寸        |          |          | $\vdash$  | $\dashv$ | $\dashv$  | _ |
|  | 13       | N        |  | $\top$  | $\top$       | $\top$   | $\top$   | 十        | $\dashv$ | ᅥ        |  | <b></b>  | 63       | $\Box$          | 十        | $\top$             | 1 1                     |          |  | 1      |       | 113      | П               |          | $\dashv$ | $\neg$   |          | -         | $\dashv$ | $\dashv$  | _ |
| l  | 14       | N        |  | $\top$  | $\top$       | $\top$   | $\top$   | $\top$   | 十        |          |  | l —      | 64       |                 | $\dashv$ | $\top$             | 1 1                     |          | 1-1-   | 1      |       | 114      | П               | $\dashv$ | _        | $\dashv$ |          | $\vdash$  | $\dashv$ | $\dashv$  | _ |
| <u> </u>   | 15       | N        | $\vdash$   | $\top$  | $\top$       | $\dashv$ | $\top$   | $\top$   | 7        |          |  | l        | 65       | $\Box$          | $\top$   | $\top$             |                         | $\top$   |  | 1      |       | 115      | Н               | -        | _        | $\dashv$ |          | $\vdash$  | $\dashv$ | $\dashv$  | _ |
|  | 16       | N        | $\vdash$   | $\top$  | $\top$       | $\top$   | $\dashv$ | $\dashv$ | 十        | $\neg$   |  | l        | 66       | $\vdash$        | 十        | $\top$             | 1 1                     |          | <del>                                     </del> | 1      |       | 116      | Н               | $\dashv$ | $\dashv$ | -        |          | $\vdash$  | $\dashv$ | $\dashv$  | _ |
|  | 17       | N        |  | +       | $\dagger$    | $\top$   | _        | $\dashv$ |          | -        |  | $\vdash$ | 67       | $\vdash$        | 十        | $\top$             | 1 -                     | +-       | <del>                                     </del> | 1      |       | 117      | Н               | $\dashv$ | _        | $\dashv$ |          | $\dashv$  | $\dashv$ | +         | _ |
| _  | 18       | N        |  | +       | +            | $\top$   | _        | _        | _        |          |  | $\vdash$ | 68       | $\vdash$        | $\dashv$ | $\top$             | 1-1                     | _        | <del>                                     </del> | 1      |       | 118      | H               |          | $\dashv$ | $\dashv$ | $\neg$   | $\dashv$  | _        | 十         | _ |
|  | 19       | N        | H  | +       | +            | -        | $\dashv$ | $\dashv$ | $\dashv$ | 一        |  |          | 69       |                 | $\dashv$ |                    | ┼─┼                     | $\dashv$ | <del>  -</del>                                   | 1      |       | 119      | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | -+       | $\dashv$  | _ |
|  | 20       | N        | ╁╌┼  | +       | +            | $\dashv$ | +        | $\dashv$ | $\dashv$ | $\dashv$ |  |          | 70       | ┯               | -        | ╅                  | +                       | +        |  | 1      |       | 120      | Н               | $\dashv$ | -        | -        | -        | $\dashv$  | $\dashv$ | $\dashv$  | - |
|  | 21       | N        | $\vdash$   | +       | +            | $\dashv$ | -        | $\dashv$ | $\dashv$ | ᅱ        |  |          | 71       | $\vdash$        | +        | +                  | 1-1                     |          | <del>   -</del>                                  | -      |       | 121      |                 | +        | +        | $\dashv$ | ┪        |           | $\dashv$ | $\dashv$  |   |
| <u> </u>   | 22       | N        | $\vdash$   | ╁       | +            | +        |          | $\dashv$ | $\dashv$ | ┥        |  | <u> </u> | 72       | $\vdash$        | +        | +                  | ┼─┤                     | $\dashv$ | ╁╌┟┄   | -      |       | 122      | Н               | $\dashv$ | +        | -        | 1        | $\dashv$  | -        | $\dashv$  |   |
| ├  | 23       | N        |  | +       | +            | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ |  | <u> </u> | 73       | -               | +        |                    | ╁                       | +        | +  | -      | -     | 123      | -               | $\dashv$ |          |          |          | -+        | +        | $\dashv$  | _ |
| <del>                                     </del> | 24       | N        | $\vdash$   |         | $\dashv$     | +        | +        | $\dashv$ | $\dashv$ | ᅥ        |  | <u> </u> | 74       | H               | $\dashv$ |                    | +-1                     | -        | <del>                                     </del> | -      |       | 124      | $\vdash$        | $\dashv$ |          |          | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$  | _ |
|  | 25       | N        | ╁  |         | +            | ┰        | -+       | +        | $\dashv$ | $\dashv$ |  | <u> </u> | 75       | ┤               | $\dashv$ | +-                 | ╁                       | +        | <del>   </del>                                   | -      |       | 125      | -               | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$  | _ |
| -  | 26       | N        | H  | +       | +            | +        |          | +        | -        | $\dashv$ |  |          | 76       | ╂─┼             | +        | <del>-   -</del> - | ╁                       | +        | <del>   </del>                                   | -      |       | 126      | -               | -        |          |          | -        |           | -        | $\dashv$  | _ |
|  | 27       | N        | $\vdash$   | +       | +            | +        |          | $\dashv$ |          | ᅱ        |  |          | 77       | ╂─┼             |          |                    | ╁┤                      | +        | <del>                                     </del> | 1      |       | 127      | H               | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$  | _ |
|  | 28       | N        | $\vdash$   | _       | +            | +        | +        | +        | -        | ᅱ        |  |          | 78       | ┞╾┤             | -+-      | ├                  | ╁                       |          | <del>   -</del>                                  | -      |       | 128      |                 | $\dashv$ | $\dashv$ | -        |          | $\vdash$  | $\dashv$ | $\dashv$  | _ |
| <u> </u>   | 29       | N        | ┝╾┼  | +       | ╁            | +        | +        | +        | +        | ᅱ        |  |          | 79       |                 |          |                    | ╁                       |          | ╂┷┼╾   | -      |       | 120      | $\vdash$        |          | -+       | -        | $\dashv$ | -         | $\dashv$ | $\dashv$  | _ |
|  | 30       | N        | $\vdash$   | +       | +            | -        | +        | +        | $\dashv$ | $\dashv$ |  |          | 80       | $\vdash$        | +        | +                  | ╀╾┤                     |          | -  | -      |       | 129      |                 | -        | $\dashv$ | -        |          |           | $\dashv$ | $\dashv$  | _ |
| -  |          | N        | -  | +       | +            | +        | -+       | +        | -+       | $\dashv$ |  |          |          | $\vdash$        | +        | +                  | $\vdash$                | $\perp$  | <del>                                     </del> | -      |       | 130      |                 |          | $\dashv$ | -        | _        | -         | -        | $\dashv$  |   |
| <u> </u>   | 31<br>2h | N        | $\vdash$   | +       |              | -        | +        | $\dashv$ | $\dashv$ | ᅱ        |  |          | 81       |                 | -+       |                    | ┦                       | +        | $\vdash$   | -      |       | 131      | Н               | $\dashv$ | $\dashv$ |          |          | -         | -        | $\dashv$  |   |
|  | 32       | -        | $\vdash$   | +       | +            | 4        |          | -        | $\dashv$ | ႕        |  |          | 82       |                 |          |                    | ╀┤                      | _        | ╁  | 4      | -     | 132      |                 | $\dashv$ | $\dashv$ | -        |          | $\dashv$  | $\dashv$ | -         | _ |
|  | 38       |          | $\vdash \vdash$                                  | +       | +            | +        | -        | +        | -+       | 닉        |  |          | 83       | $\vdash$        | +        | +                  | ╂┼                      |          | ┼┼-  | -      |       | 133      | $\vdash$        |          |          |          | _        | -         | -        |           | _ |
| <b> </b>   | 34       | ./       | $\vdash \vdash$                                  | +       | +            | +        | +        | +        | +        | 4        |  | <u> </u> | 84       | $\vdash$        | +        | +                  | ╂╼┼                     | $\dashv$ | <del>├</del>                                     | -      |       | 134      |                 | $\dashv$ | -        | -        |          | <b></b>   |          | 4         |   |
| <u> </u>   | 35       | 1        | $\vdash \vdash$                                  | +       | +            | +        | -        | +        |          |          |  | <u> </u> | 85       | $\vdash$        | +        | +                  | ┦─┤                     | +        | <b>├</b> ├-                                      | 4      |       | 135      | Н               | $\dashv$ | _        |          |          | <b>—</b>  | $\dashv$ | $\dashv$  |   |
|  | 36       | ٧        | $\vdash$   | +       | +            | +        |          | -        | -        |          |  | <u> </u> | 86       | $\vdash \vdash$ | $\dashv$ | +                  | ++                      | +        | ₩.   | 4      |       | 136      | $\vdash \vdash$ | _        |          |          | _        | $\square$ | -        | _         | _ |
|  | 37       | <u> </u> | <del>                                     </del> | +       | +            | +        | +        | +        | +        | _        |  | <u> </u> | 87       | $\sqcup$        | $\dashv$ | +                  | +                       | +        | -  | 4      |       | 137      | $\vdash$        | $\dashv$ | _        |          | -        |           | $\dashv$ |           |   |
| <del> </del>                                     | 38       | -        | $\vdash$   | +       | +            | +        | +        | +        | $\dashv$ | 긕        |  |          | 88       | $\vdash \vdash$ | $\dashv$ | -                  | +                       |          | -  | -      |       | 138      | $\vdash \vdash$ | $\dashv$ | 4        | _        | $\dashv$ |           | -        | $\dashv$  | _ |
|  | 39       | ├-       | ├┼-  | +       | - -          | -        | +        | +        | +        | 4        |  | <u> </u> | 89       |                 | $\dashv$ | -                  | $\vdash$                | $\perp$  | $\vdash$   | 4      |       | 139      | $\sqcup$        |          | _        |          |          |           |          | _         | _ |
|  | 40       | ļ        | $\vdash \vdash$                                  | +       | +            | +        | -+       | $\dashv$ | $\dashv$ | 4        |  |          | 90       | $\vdash$        | -        | +                  | $\vdash$                | -        | $\vdash$   | 4      |       | 140      | $\square$       |          | _        |          | _        | $\square$ | $\dashv$ |           |   |
| <b>-</b>   | 41       | -        | $\vdash \vdash$                                  | +       | +            | +        | +        | -        | $\dashv$ | 4        |  | ļ        | 91       | $\vdash \vdash$ | -        | +                  | $\vdash$                | $\dashv$ | $\vdash$   | -      |       | 141      | $\vdash$        |          | _        | _        |          |           | $\dashv$ | 4         |   |
|  | 42       | <u> </u> | $\vdash \vdash$                                  | -       | +            | -        | +        | +        | $\dashv$ | _        |  |          | 92       | Н               | +        | -                  | <del>  </del>           |          | $\vdash$   | 4      |       | 142      | $\sqcup$        | $\dashv$ |          |          | _        | _         | _        | _         | _ |
| <u> </u>   | 43       | <u> </u> | ⊢∔   | +       | +            | 4        | _        | +        | $\dashv$ |          |  | <u> </u> | 93       |                 | 4        | _                  | $\perp \downarrow$      | $\perp$  | <del>                                     </del> |        |       | 143      | Щ               | _        | _        |          |          | _         | _        | _         | _ |
| <u> </u>   | 44       | <u> </u> | $\vdash \vdash$                                  | _       | +            | 4        | _        | 4        |          | _        |  | <u> </u> | 94       | $\sqcup$        | $\perp$  |                    | $\sqcup$                |          | $\vdash \vdash$                                  | 4      |       | 144      | Ш               | $\Box$   | _        | _        |          | $\sqcup$  | _        | _         |   |
|  | 45       | _        | $\sqcup \!\!\!\! \perp$                          | $\perp$ | 4            | $\perp$  | 4        | 4        | _        | _        |  |          | 95       | $\sqcup$        | _        |                    | $oldsymbol{\downarrow}$ |          | $\sqcup$   | 4      |       | 145      | $\sqcup$        | _        |          |          |          |           | $\perp$  |           | _ |
|  | 46       | <u> </u> | $\sqcup \!\!\! \perp$                            | 4       | $\downarrow$ |          | _        | $\perp$  |          | _        |  |          | 96       |                 | $\perp$  | $\perp$            | $\perp \perp$           | $\perp$  | $\sqcup \sqcup$                                  | 4      |       | 146      |                 |          |          |          |          |           | $\Box$   | $\Box$    |   |
|  | 47       | <u> </u> | $\sqcup \!\!\! \perp$                            | _       | $\perp$      |          |          | $\perp$  |          | _        |  |          | 97       | Ш               |          |                    | $\sqcup$                | $\perp$  | Ш.   |        |       | 147      |                 |          | ┙        |          |          |           |          |           |   |
|  | 48       | <u> </u> | $\sqcup \bot$                                    | $\perp$ | $\perp$      | $\perp$  | $\perp$  | $\perp$  | $\perp$  | _        |  |          | 98       | Ш               |          | $\perp$            | $\Box$                  |          | $oxed{oxed}$                                     |        |       | 148      | Ш               |          |          |          |          | ]         |          | $\Box$    |   |
|  | 49       | L.       | Ш  | $\perp$ | $\perp$      | $\bot$   | $\perp$  | $\perp$  |          |          |  |          | 99       | Ш               |          |                    | $oxed{oxed}$            |          |  |        | ·     | 149      |                 |          |          | _]       |          |           |          |           |   |
| L  | 50       |          |  |         |              |          |          |          | - 1      |          |  | ٠.       | 100      | ΙĪ              |          | - 1 -              | ΙŢ                      | "        |  |        |       | 150      | ıΤ              | I        | Π        | 1        |          |           | ·        | Т         |   |